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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/482,030	01/13/2000	Zion Hadad		6469
7590	11/04/2004		EXAMINER	
Zion Hadad 48 Maalmogim St Rishon Lezion, ISRAEL			BEAMER, TEMICA M	
			ART UNIT	PAPER NUMBER
				2681

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/482,030	HADAD, ZION
<b>Examiner</b>	<b>Art Unit</b>	
	Temica M. Beamer	2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 22 October 2004.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 19-32 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) 19-30 is/are allowed.

6)  Claim(s) 31 and 32 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All    b)  Some \* c)  None of:

1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date . . . .  
4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: . . . .

## DETAILED ACTION

### ***Claim Objections***

1. Claim 32 is objected to because of the following informalities: In line 2, "broadcas)" should read --broadcast--. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baum et al (Baum), U.S. Patent No. 5,867,478 in view of Perez-Breva et al (Perez-Breva), U.S. Patent No. 6,393,294.

Regarding claim 31, Baum discloses in a broadcast SFN system using OFDM transmission from a base station to subscriber units means for achieving a bi-directional channel comprising transmitting means in the subscriber units for a transmission of signals orthogonal to the signals transmitted from the base station and receiving means in the base station for receiving the orthogonal signals (col. 8, lines 7-28).

Baum, however, fails to disclose means for reducing interference related to broadcast data from other base stations, comprising equalizer methods or means.

In a similar field of endeavor, Perez-Breva discloses a means for reducing interference related to broadcast data from base stations comprising equalizer means (col. 4, lines 10-22).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Baum with the teachings of Perez-Breva for the purpose of reducing interference, thereby improving the quality of communication.

Regarding claim 32, the combination of Baum and Perez-Breva discloses the broadcast SFN system according to claim 31, wherein the means for reducing interference related to broadcast data from other base stations comprises a transversal filter (Perez-Breva, col. 4, lines 10-22).

#### ***Allowable Subject Matter***

4. Claims 19-30 are allowed.
  
5. The following is a statement of reasons for the indication of allowable subject matter: Prior art fails to suggest or render obvious the method of separating and processing broadcast data and personalized data as described.

#### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Beamer whose telephone number is (703)

306-5837. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703) 308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temica M. Beamer  
Examiner  
Art Unit 2681

November 1, 2004

